

Depth to correspond to moulded summer draught of 10.0'

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 36549
(For London Office only).

Ship's Name <i>Richard Dunston's</i> <i>Yard No 5-416/7.</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>140.42</i> Breadth <i>26.0</i> Depth <i>11.01</i> <i>to cr. of rudder stock</i> <i>10.26</i>					Date of Survey <i>19.3.40</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Coefficient of fineness for use with Tables <i>.730</i>					Particulars of Classification

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... <i>16.97</i>	(a) Where D is greater than Table depth (D - Table depth) R = <i>(11.01 - 9.36) 1.08 = 1.78</i>	Moulded Breadth (B) <i>26.0</i>
Stringer plate ... <i>.04</i>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <i>1.68</i>	Standard Round of Beam = $\frac{B \times 12}{50} =$ <i>6.24</i>
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = <i>Assumed normal</i>
Depth for Freeboard (D) = <i>11.01</i>		Difference <i>Nil</i>
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>Nil</i>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed <i>equivalent</i>	<i>42.58</i>	<i>42.58</i>	<i>6.75</i>	-	<i>42.58</i>	Standard Height of Superstructure <i>6.0</i>
" overhang ...						" " R.Q.D. <i>10.04</i>
R.Q.D. enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$ <i>40.00</i>
Bridge enclosed						" $\frac{S_1}{L} =$ <i>40.00</i>
" overhang aft						" $\frac{E}{L} =$ <i>38.39</i>
" overhang forward						Percentage from Table, Line A. <i>22.13</i>
Fore enclosed <i>equivalent</i>	<i>11.65</i>	<i>11.65</i>	<i>5.83</i>	<i>x 5/6</i>	<i>9.71</i>	(corrected for absence of forecastle (if required))
" overhang	<i>1.94</i>	<i>1.94</i>	<i>5.0</i>		<i>1.62</i>	Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction = <i>20.04 x 22.13 = -4.43</i>
" forward						
Total	<i>56.17</i>	<i>56.17</i>			<i>53.91</i>	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	<i>24.04</i>	1					1			Mean actual sheer aft =
$\frac{1}{8}L$ from A.P.		4					4			Mean standard sheer aft =
$\frac{3}{8}L$		2					2			Mean actual sheer forward =
Amidships		4					4			Mean standard sheer forward =
$\frac{3}{8}L$ from F.P.		2					2			Length of enclosed superstructure forward of amidships =
$\frac{1}{8}L$		4					4			" " aft of " =
F.P.	<i>48.08</i>	1					1			
Total				<i>216.36</i>						

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) =$ *Nil*

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Corrected for Flush Deck (if required)	
Depth to Freeboard Deck = <i>11.00</i>	$\Delta =$	Correction for coefficient $\frac{.73 + .68}{1.36} = 1.41/1.36$	<i>14.25</i>
Summer freeboard = <i>1.00</i>	Tons per inch immersion at summer load water line	Depth Correction ... <i>1.78</i>	<i>14.77</i>
Moulded draught (d) = <i>10.00</i>	T =	Deduction for superstructures ... <i>4.43</i>	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40T}$ inches =	Sheer correction ...	
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction ...	
		Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. ...	
		Summer Freeboard = <i>12.12 = 12'</i>	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line	Fresh Water
Tropical Line	Tropical
Winter Line below	Winter
Winter North Atlantic Line	Winter North Atlantic

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